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RAW SEQUENCE LISTING DATE: 04/24/2001
PATENT APPLICATION: US/09/749,273 TIME: 11:11:30

Input Set : N:\Crif3\RULE60\09749273.txt
Output Set: N:\CRF3\04242001\I749273.raw

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2.

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
6 (i) APPLICANT: Korenberg, Julie R.
7 Yamakawa, Kazuhiro
9 (ii) TITLE OF INVENTION: A NOVEL CHROMOSOME 21 GENE MARKER,
10 COMPOSITIONS AND METHODS USING SAME
12 (iii) NUMBER OF SEQUENCES: 3
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: CAMPBELL & FLORES, LLP
16 (B) STREET: 4370 La Jolla Village Drive, Suite 700
17 (C) CITY: San Diego
18 (D) STATE: California
19 (E) COUNTRY: United States
20 (F) ZIP: 91212
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
28 (vi) CURRENT APPLICATION DATA:
C--> 29 (A) APPLICATION NUMBER: US/09/749,273
C--> 30 (B) FILING DATE: 26-Dec-2000
31 (C) CLASSIFICATION:
33 (vii) PRIOR APPLICATION DATA:
34 (A) APPLICATION NUMBER: 09/048,887
35 (B) FILING DATE:
38 (viii) ATTORNEY/AGENT INFORMATION:
39 (A) NAME: Campbell, Cathryn A.
40 (B) REGISTRATION NUMBER: 31,815
41 (C) REFERENCE/DOCKET NUMBER: P-CE 2573
43 (ix) TELECOMMUNICATION INFORMATION:
44 (A) TELEPHONE: (619)535-9001
45 (B) TELEFAX: (619)535-8949
48 (2) INFORMATION FOR SEQ ID NO: 1:
50 (i) SEQUENCE CHARACTERISTICS:
51 (A) LENGTH: 5141 base pairs
52 (B) TYPE: nucleic acid
53 (C) STRANDEDNESS: double
54 (D) TOPOLOGY: linear
56 (ii) MOLECULE TYPE: cDNA
59 (vii) IMMEDIATE SOURCE:
60 (A) LIBRARY: TRISOMY 21 FETAL BRAIN cDNA LIBRARY
61 (B) CLONE: EHOC-1
63 (viii) POSITION IN GENOME:
64 (A) CHROMOSOME/SEGMENT: 21q22.3
66 (ix) FEATURE:
67 (A) NAME/KEY: CDS

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68      (B) LOCATION: 157..3729.
71      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
73 CTGCAGGAAT CGGCACGAGG CGGCGCAACC GGCTCCGGAG CTGCCTGGCG CGGCCGGGCG      60
75 GCGCGCGCCG CTCAGGCTCG GGCTCCGGCT GGGCCC GGCG CGGCCTCGGG GCTGCCCATG      120
77 GGGCGCGGGG GGCCGGGCCG GTGACGCCGG ACGCCC ATG GAC GCC TCT GAG GAG      174
78                                     Met Asp Ala Ser Glu Glu
79                                     1           5
81 CCG CTG CCG CCG GTG ATC TAC ACC ATG GAG AAC AAG CCC ATC GTC ACC      222
82 Pro Leu Pro Pro Val Ile Tyr Thr Met Glu Asn Lys Pro Ile Val Thr
83         10           15           20
85 TGT GCT GGA GAT CAG AAT TTA TTT ACC TCT GTT TAT CCA ACG CTC TCT      270
86 Cys Ala Gly Asp Gln Asn Leu Phe Thr Ser Val Tyr Pro Thr Leu Ser
87         25           30           35
89 CAG CAG CTT CCA AGA GAA CCA ATG GAA TGG AGA AGG TCC TAT GGC CGG      318
90 Gln Gln Leu Pro Arg Glu Pro Met Glu Trp Arg Arg Ser Tyr Gly Arg
91         40           45           50
93 GCT CCG AAG ATG ATT CAC CTA GAG TCT AAC TTT GTT CAA TTC AAA GAG      366
94 Ala Pro Lys Met Ile His Leu Glu Ser Asn Phe Val Gln Phe Lys Glu
95 55           60           65           70
97 GAG CTG CTG CCC AAA GAA GGA AAC AAA GCT CTG CTC ACG TTT CCC TTC      414
98 Glu Leu Leu Pro Lys Glu Gly Asn Lys Ala Leu Leu Thr Phe Pro Phe
99         75           80           85
101 CTC CAT ATT TAC TGG ACA GAG TGC TGT GAT ACC GAA GTG TAT AAA GCT      462
102 Leu His Ile Tyr Trp Thr Glu Cys Cys Asp Thr Glu Val Tyr Lys Ala
103         90           95           100
105 ACA GTA AAA GAT GAC CTC ACC AAG TGG CAG AAT GTT CTG AAG GCT CAT      510
106 Thr Val Lys Lys Asp Asp Leu Thr Lys Trp Gln Asn Val Leu Lys Ala His
107         105           110           115
109 AGC TCT GTG GAC TGG TTA ATA GTG ATA GTT GAA AAT GAT GCC AAG AAA      558
110 Ser Ser Val Asp Trp Leu Ile Val Ile Val Glu Asn Asp Ala Lys Lys
111         120           125           130
113 AAA AAC AAA ACC AAC ATC CTT CCC CGA ACC TCT ATT GTG GAC AAA ATA      606
114 Lys Asn Lys Thr Asn Ile Leu Pro Arg Thr Ser Ile Val Asp Lys Ile
115 135           140           145           150
117 AGA AAT GAT TTT TGT AAT AAA CAG AGT GAC AGG TGT GTT GTG CTC TCC      654
118 Arg Asn Asp Phe Cys Asn Lys Gln Ser Asp Arg Cys Val Val Leu Ser
119         155           160           165
121 GAC CCC TTG AAG GAC TCT TCT CGA ACT CAG GAA TCC TGG AAT GCC TTC      702
122 Asp Pro Leu Lys Asp Ser Ser Arg Thr Gln Glu Ser Trp Asn Ala Phe
123         170           175           180
125 CTG ACC AAA CTC AGG ACA TTG CTT CTT ATG TCT TTT ACC AAA AAC CTA      750
126 Leu Thr Lys Leu Arg Thr Leu Leu Leu Met Ser Phe Thr Lys Asn Leu
127         185           190           195
129 GGC AAG TTT GAG GAT GAC ATG AGA ACC TTG AGG GAG AAG AGG ACT GAG      798
130 Gly Lys Phe Glu Asp Asp Met Arg Thr Leu Arg Glu Lys Arg Thr Glu
131         200           205           210
133 CCA GGC TGG AGC TTT TGT GAA TAT TTC ATG GTT CAG GAG GAG CTT GCC      846
134 Pro Gly Trp Ser Phe Cys Glu Tyr Phe Met Val Gln Glu Glu Leu Ala
135 215           220           225           230

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137	TTT	GTT	TTC	GAG	ATG	CTG	CAG	CAG	TTC	GAG	GAC	GCC	CTG	GTG	CAG	TAC	894
138	Phe	Val	Phe	Glu	Met	Leu	Gln	Gln	Phe	Glu	Asp	Ala	Leu	Val	Gln	Tyr	
139				235						240					245		
141	GAC	GAA	CTG	GAC	GCC	CTC	TTC	TCT	CAG	TAT	GTG	GTC	AAC	TTC	GGG	GCC	942
142	Asp	Glu	Leu	Asp	Ala	Leu	Phe	Ser	Gln	Tyr	Val	Val	Asn	Phe	Gly	Ala	
143				250						255					260		
145	GGG	GAT	GGT	GCC	AAC	TGG	CTG	ACT	TTT	TTC	TGC	CAG	CCA	GTG	AAG	AGC	990
146	Gly	Asp	Gly	Ala	Asn	Trp	Leu	Thr	Phe	Phe	Cys	Gln	Pro	Val	Lys	Ser	
147				265						270					275		
149	TGG	AAC	GGA	TTG	ATC	CTC	CGA	AAA	CCC	ATA	GAT	ATG	GAG	AAG	CGG	GAA	1038
150	Trp	Asn	Gly	Leu	Ile	Leu	Arg	Lys	Pro	Ile	Asp	Met	Glu	Lys	Arg	Glu	
151				280						285					290		
153	TCG	ATC	CAG	AGG	CGA	GAA	GCC	ACC	CTG	TTA	GAT	CTG	CGC	AGT	TAC	CTG	1086
154	Ser	Ile	Gln	Arg	Arg	Glu	Ala	Thr	Leu	Leu	Asp	Leu	Arg	Ser	Tyr	Leu	
155	295					300					305					310	
157	TTC	TCT	CGC	CAG	TGC	ACC	TTG	CTG	CTC	TTC	CTG	CAG	AGG	CCG	TGG	GAG	1134
158	Phe	Ser	Arg	Gln	Cys	Thr	Leu	Leu	Leu	Phe	Leu	Gln	Arg	Pro	Trp	Glu	
159					315						320					325	
161	GTG	GCC	CAG	CGC	GCC	CTA	GAG	CTG	CTG	CAC	AAC	TGC	GTG	CAG	GAA	CTG	1182
162	Val	Ala	Gln	Arg	Ala	Leu	Glu	Leu	His	Asn	Cys	Val	Gln	Glu	Leu		
163					330					335					340		
165	AAG	CTC	TTA	GAA	GTC	TCT	GTC	CCA	CCT	GGT	GCT	CTG	GAC	TGC	TGG	GTG	1230
166	Lys	Leu	Leu	Glu	Val	Ser	Val	Pro	Pro	Gly	Ala	Leu	Asp	Cys	Trp	Val	
167				345						350					355		
169	TTT	CTG	AGC	TGT	CTG	GAG	GTG	TTG	CAG	AGG	ATA	GAA	GGC	TGC	TGT	GAC	1278
170	Phe	Leu	Ser	Cys	Leu	Glu	Val	Leu	Gln	Arg	Ile	Glu	Gly	Cys	Cys	Asp	
171				360						365					370		
173	CGG	GCA	CAG	ATC	GAC	TCA	AAC	ATT	GCC	CAC	ACT	GTG	GGG	CTA	TGG	AGC	1326
174	Arg	Ala	Gln	Ile	Asp	Ser	Asn	Ile	Ala	His	Thr	Val	Gly	Leu	Trp	Ser	
175	375					380					385					390	
177	TAT	GCC	ACA	GAA	AAG	TTA	AAG	TCC	TTG	GGC	TAT	CTA	TGT	GGA	CTT	GTG	1374
178	Tyr	Ala	Thr	Glu	Lys	Leu	Lys	Ser	Leu	Gly	Tyr	Leu	Cys	Gly	Leu	Val	
179					395						400					405	
181	TCA	GAG	AAA	GGA	CCT	AAC	TCA	GAA	GAT	CTC	AAC	AGG	ACA	GTT	GAC	CTT	1422
182	Ser	Glu	Lys	Gly	Pro	Asn	Ser	Glu	Asp	Leu	Asn	Arg	Thr	Val	Asp	Leu	
183				410						415					420		
185	TTG	GCA	GGT	TTG	GGA	GCT	GAG	CGA	CCA	GAA	ACA	GCC	AAC	ACA	GCT	CAG	1470
186	Leu	Ala	Gly	Leu	Gly	Ala	Glu	Arg	Pro	Glu	Thr	Ala	Asn	Thr	Ala	Gln	
187				425						430					435		
189	AGT	CCT	TAT	AAG	AAA	CTG	AAA	GAA	GCA	TTA	TCG	TCA	GTG	GAA	GCT	TTT	1518
190	Ser	Pro	Tyr	Lys	Lys	Leu	Lys	Glu	Ala	Leu	Ser	Ser	Val	Glu	Ala	Phe	
191				440						445					450		
193	GAA	AAA	CAC	TAC	TTA	GAT	TTG	TCC	CAT	GCC	ACC	ATT	GAA	ATG	TAT	ACA	1566
194	Glu	Lys	His	Tyr	Leu	Asp	Leu	Ser	His	Ala	Thr	Ile	Glu	Met	Tyr	Thr	
195	455					460					465					470	
197	AGC	ATT	GGG	AGG	ATT	CGA	TCT	GCT	AAG	TTT	GTT	GGA	AAA	GAT	CTG	GCA	1614
198	Ser	Ile	Gly	Arg	Ile	Arg	Ser	Ala	Lys	Phe	Val	Gly	Lys	Asp	Leu	Ala	
199					475						480					485	
201	GAG	TTT	TAC	ATG	AGG	AAA	AAG	GCT	CCA	CAA	AAG	GCA	GAA	ATC	TAT	CTT	1662

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202	Glu	Phe	Tyr	Met	Arg	Lys	Lys	Ala	Pro	Gln	Lys	Ala	Glu	Ile	Tyr	Leu	
203				490				495					500				
205	CAA	GGA	GCA	CTG	AAA	AAC	TAC	CTG	GCT	GAG	GGC	TGG	GCA	CTC	CCC	ATC	1710
206	Gln	Gly	Ala	Leu	Lys	Asn	Tyr	Leu	Ala	Glu	Gly	Trp	Ala	Leu	Pro	Ile	
207			505					510					515				
209	ACA	CAC	ACA	AGG	AAG	CAG	CTG	GCC	GAA	TGT	CAA	AAG	CAC	CTT	GGA	CAA	1758
210	Thr	His	Thr	Arg	Lys	Gln	Leu	Ala	Glu	Cys	Gln	Lys	His	Leu	Gly	Gln	
211		520				525					530						
213	ATT	GAA	AAC	TAC	CTG	CAG	ACC	AGC	AGC	CTC	TTA	GCC	AGT	GAC	CAC	CAC	1806
214	Ile	Glu	Asn	Tyr	Leu	Gln	Thr	Ser	Ser	Leu	Leu	Ala	Ser	Asp	His	His	
215	535					540				545					550		
217	CTC	ACT	GAA	GAG	GAG	CGC	AAG	CAC	TTC	TGC	CAG	GAG	ATA	CTT	GAC	TTT	1854
218	Leu	Thr	Glu	Glu	Glu	Arg	Lys	His	Phe	Cys	Gln	Glu	Ile	Leu	Asp	Phe	
219				555						560					565		
221	GCC	AGC	CAG	CCG	TCA	GAC	AGC	CCA	GGT	CAT	AAG	ATA	GTG	CTA	CCC	ATG	1902
222	Ala	Ser	Gln	Pro	Ser	Asp	Ser	Pro	Gly	His	Lys	Ile	Val	Leu	Pro	Met	
223			570					575					580				
225	CAT	TCC	TTT	GCA	CAA	CTG	CGA	GAT	CTC	CAT	TTT	GAT	CCC	TCC	AAT	GCC	1950
226	His	Ser	Phe	Ala	Gln	Leu	Arg	Asp	Leu	His	Phe	Asp	Pro	Ser	Asn	Ala	
227			585					590					595				
229	GTG	GTC	CAC	GTG	GGC	GGC	GTT	TTG	TGC	GTT	GAG	ATA	ACC	ATG	TAC	AGC	1998
230	Val	Val	His	Val	Gly	Gly	Val	Leu	Cys	Val	Glu	Ile	Thr	Met	Tyr	Ser	
231		600				605					610						
233	CAG	ATG	CCT	GTG	CCT	GTT	CAC	GTG	GAG	CAG	ATT	GTG	GTC	AAT	GTC	CAC	2046
234	Gln	Met	Pro	Val	Pro	Val	His	Val	Glu	Gln	Ile	Val	Val	Asn	Val	His	
235	615					620					625				630		
237	TTC	AGC	ATT	GAG	AAA	AAC	AGC	TAC	CGG	AAG	ACT	GCG	GAG	TGG	CTT	ACC	2094
238	Phe	Ser	Ile	Glu	Lys	Asn	Ser	Tyr	Arg	Lys	Thr	Ala	Glu	Trp	Leu	Thr	
239				635						640					645		
241	AAG	CAC	AAG	ACG	TCC	AAT	GGG	ATC	ATT	AAC	TTT	CCA	CCC	GAG	ACC	GCA	2142
242	Lys	His	Lys	Thr	Ser	Asn	Gly	Ile	Ile	Asn	Phe	Pro	Pro	Glu	Thr	Ala	
243			650					655					660				
245	CCT	TTC	CCT	GTA	TCC	CAA	AAC	AGT	TTG	CCC	GCG	CTG	GAG	TTG	TAT	GAA	2190
246	Pro	Phe	Pro	Val	Ser	Gln	Asn	Ser	Leu	Pro	Ala	Leu	Glu	Leu	Tyr	Glu	
247			665					670					675				
249	ATG	TTT	GAG	AGA	AGC	CCA	TCT	GAT	AAC	TCC	TTG	AAC	ACG	ACT	GGG	ATT	2238
250	Met	Phe	Glu	Arg	Ser	Pro	Ser	Asp	Asn	Ser	Leu	Asn	Thr	Thr	Gly	Ile	
251		680						685					690				
253	ATC	TGC	AGA	AAC	GTC	CAC	ATG	CTC	CTG	AGA	AGG	CAG	GAG	AGC	AGC	TCC	2286
254	Ile	Cys	Arg	Asn	Val	His	Met	Leu	Leu	Arg	Arg	Gln	Glu	Ser	Ser	Ser	
255	695					700					705				710		
257	TCT	CTA	GAG	ATG	CCC	TCA	GGG	GTG	GCT	CTG	GAG	GAG	GGT	GCC	CAC	GTG	2334
258	Ser	Leu	Glu	Met	Pro	Ser	Gly	Val	Ala	Leu	Glu	Glu	Gly	Ala	His	Val	
259				715				720					725				
261	CTG	AGG	TGC	AGC	CAC	GTG	ACC	CTG	GAA	CCA	GGG	GCC	AAC	CAG	ATA	ACA	2382
262	Leu	Arg	Cys	Ser	His	Val	Thr	Leu	Glu	Pro	Gly	Ala	Asn	Gln	Ile	Thr	
263			730					735					740				
265	TTC	AGG	ACT	CAG	GCC	AAG	GAA	CCT	GGA	ACG	TAT	ACA	CTC	AGG	CAG	CTG	2430
266	Phe	Arg	Thr	Gln	Ala	Lys	Glu	Pro	Gly	Thr	Tyr	Thr	Leu	Arg	Gln	Leu	

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267	745	750	755	
269	TGC GCC TCG GTG GGC TCC GTG TGG TTC GTC CTC CCT CAC ATC TAC CCC	2478		
270	Cys Ala Ser Val Gly Ser Val Trp Phe Val Leu Pro His Ile Tyr Pro			
271	760 765 770			
273	ATT GTG CAG TAC GAC GTG TAC TCA CAG GAG CCC CAG CTG CAC GTG GAG	2526		
274	Ile Val Gln Tyr Asp Val Tyr Ser Gln Glu Pro Gln Leu His Val Glu			
275	775 780 785 790			
277	CCG CTG GCT GAT AGC CTT CTG GCA GGC ATT CCT CAG AGA GTC AAG TTC	2574		
278	Pro Leu Ala Asp Ser Leu Leu Ala Gly Ile Pro Gln Arg Val Lys Phe			
279	795 800 805			
281	ACT GTC ACT ACC GGC CAT GAT ACG ATA AAG AAT GGA GAC AGC CTG CAG	2622		
282	Thr Val Thr Thr Gly His Asp Thr Ile Lys Asn Gly Asp Ser Leu Gln			
283	810 815 820			
285	CTT AGC AAT GCC GAA GCC ATG CTC ATC CTG TGC CAG GCG GAG AGC AGG	2670		
286	Leu Ser Asn Ala Glu Ala Met Leu Ile Leu Cys Gln Ala Glu Ser Arg			
287	825 830 835			
289	GCT GTG GTC TAC TCC AAC ACG AGA GAA CAG TCT TCT GAG GCC GCG CTC	2718		
290	Ala Val Val Tyr Ser Asn Thr Arg Glu Gln Ser Ser Glu Ala Ala Leu			
291	840 845 850			
293	CGG ATT CAG TCC TCC GAC AAG GTC ACG AGC ATC AGT CTG CCT GTT GCG	2766		
294	Arg Ile Gln Ser Ser Asp Lys Val Thr Ser Ile Ser Leu Pro Val Ala			
295	855 860 865 870			
297	CCT GCG TAC CAC GTG ATC GAA TTT GAA CTG GAA GTT CTC TCT TTA CCT	2814		
298	Pro Ala Tyr His Val Ile Glu Phe Glu Leu Glu Val Leu Ser Leu Pro			
299	875 880 885			
301	TCA GCC CCA GCA CTC GGA GGG GAG AGT GAC ATG CTG GGG ATG GCA GAG	2862		
302	Ser Ala Pro Ala Leu Gly Gly Glu Ser Asp Met Leu Gly Met Ala Glu			
303	890 895 900			
305	CCC CAC AGG AAG CAT AAG GAC AAA CAG AGA ACT GGC CGC TGC ATG GTT	2910		
306	Pro His Arg Lys His Lys Asp Lys Gln Arg Thr Gly Arg Cys Met Val			
307	905 910 915			
309	ACC ACA GAC CAC AAA GTG TCG ATT GAC TGC CCG TGG TCC ATC TAC TCC	2958		
310	Thr Thr Asp His Lys Val Ser Ile Asp Cys Pro Trp Ser Ile Tyr Ser			
311	920 925 930			
313	ACA GTC ATC GCA CTG ACC TTC AGC GTA CCC TTC AGG ACC ACA CAC AGC	3006		
314	Thr Val Ile Ala Leu Thr Phe Ser Val Pro Phe Arg Thr Thr His Ser			
315	935 940 945 950			
317	CTC CTG TCC TCA GGA ACA CGG AAA TAT GTT CAA GTT TGT GTC CAG AAT	3054		
318	Leu Leu Ser Ser Gly Thr Arg Lys Tyr Val Gln Val Cys Val Gln Asn			
319	955 960 965			
321	TTG TCA GAA CTT GAC TTT CAG CTG TCA GAT AGT TAT CTT GTA GAT ACC	3102		
322	Leu Ser Glu Leu Asp Phe Gln Leu Ser Asp Ser Tyr Leu Val Asp Thr			
323	970 975 980			
325	GGT GAT AGT ACC GAC CTG CAA CTA GTA CCA CTG AAC ACG CAG TCC CAG	3150		
326	Gly Asp Ser Thr Asp Leu Gln Leu Val Pro Leu Asn Thr Gln Ser Gln			
327	985 990 995			
329	CAG CCC ATC TAC AGC AAG CAG TCG GTG TTC TTC GTC TGG GAA CTC AAG	3198		
330	Gln Pro Ile Tyr Ser Lys Gln Ser Val Phe Phe Val Trp Glu Leu Lys			
331	1000 1005 1010			

VERIFICATION SUMMARY

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L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]